DEALER SET-UP INSTRUCTIONS FOR SNAPPER RIDING MOWER SNOWTHROWER ATTACHMENT #82099

This attachment is intended for all Snapper Riding Mowers with 8 and higher horsepower engines. Riders with lower horsepower engines will, however, accept 8 HP engines to allow sufficient power for the Snowthrower. NOTE: If the Rider involved is a 33" or 42" model, Kit #6-0514 will have to be ordered and installed in addition to this Snowthrower kit to accommodate the wider front ends and longer tubes on these models.

Tools required for the installation are a pair of pliers, two each 7/16, 1/2 and 9/16" wrenches, hammer, center punch, 1/8" (starter) and 11/32" (final) drill bit and an electric drill.

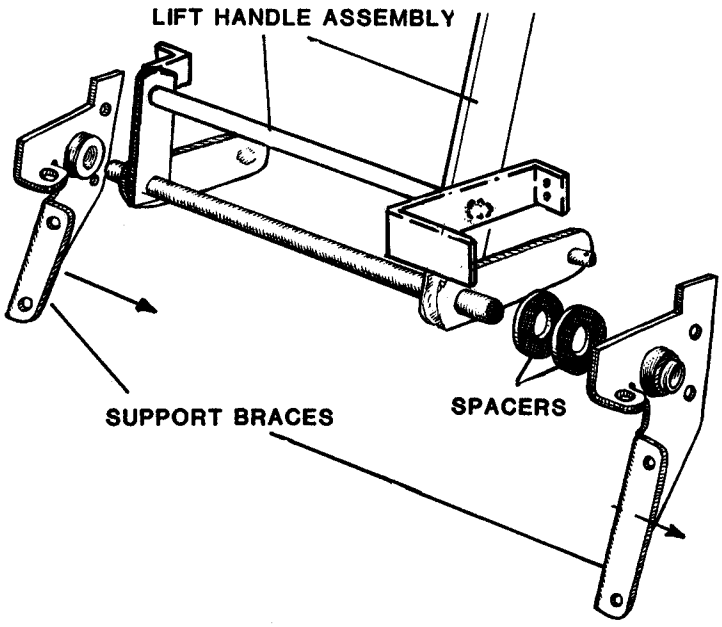

FIGURE 1. LIFT HANDLE ASSEMBLY DETAIL

INSTALLATION PROCEDURE

The initial installation should be done by Snapper Dealer using the following procedure:

STEP 1: Remove the spindle cover from the mower, disconnect the drive belt from the deck pulleys, disconnect the wiring harness at the deck interlock, lift the chains off the rear lift arms then pull the deck retaining pin from the front end and remove the cutting deck from the Rider.

STEP 2: Assemble the lift support brackets to the lift handle assembly in the sequence shown in Figure 1.

STEP 3: Position the lift handle and bracket assembly on the front end as shown in Figure 2. Center lift arms with notches on the front end. Use this as template to mark the holes to be drilled on top of the front end for mounting the brackets. Punch mark the holes on top of the brackets first then remove the lift assembly and drill top holes using 1/8" drill bit as starter then use the 11/32" drill bit.

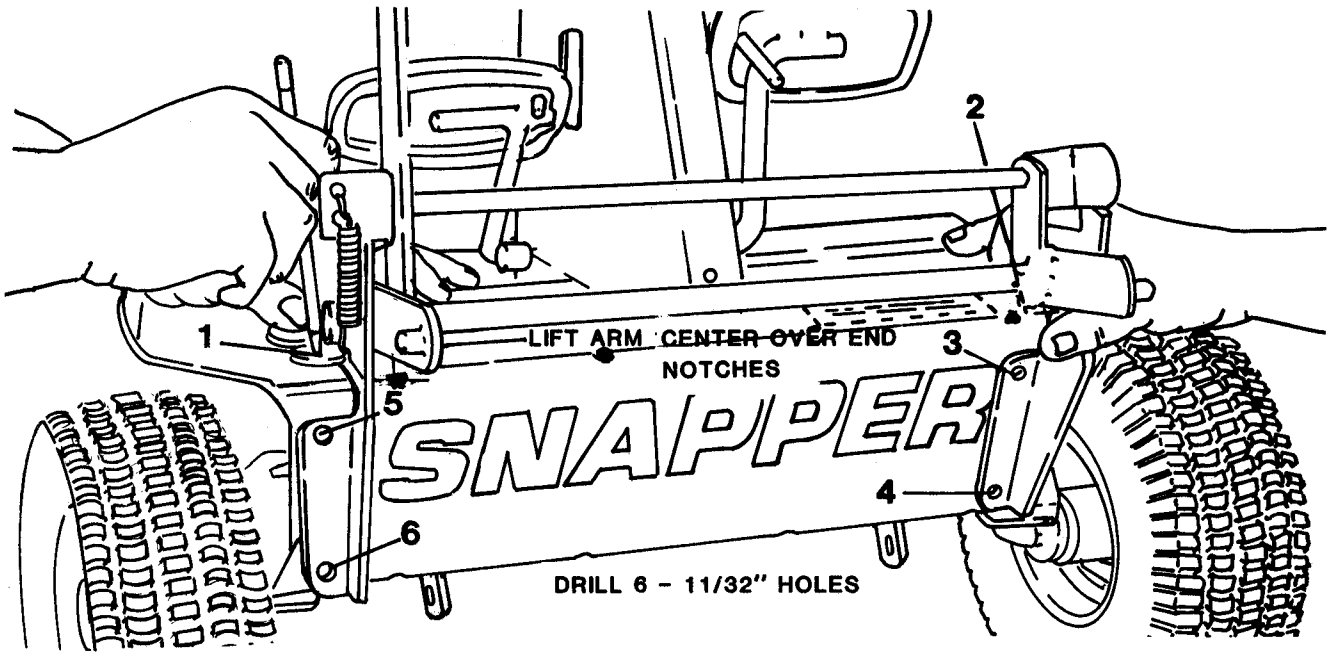

FIGURE 2. MARKING HOLE CENTERS FOR ATTACHING LIFT HANDLE ASSEMBLY

(OVER)

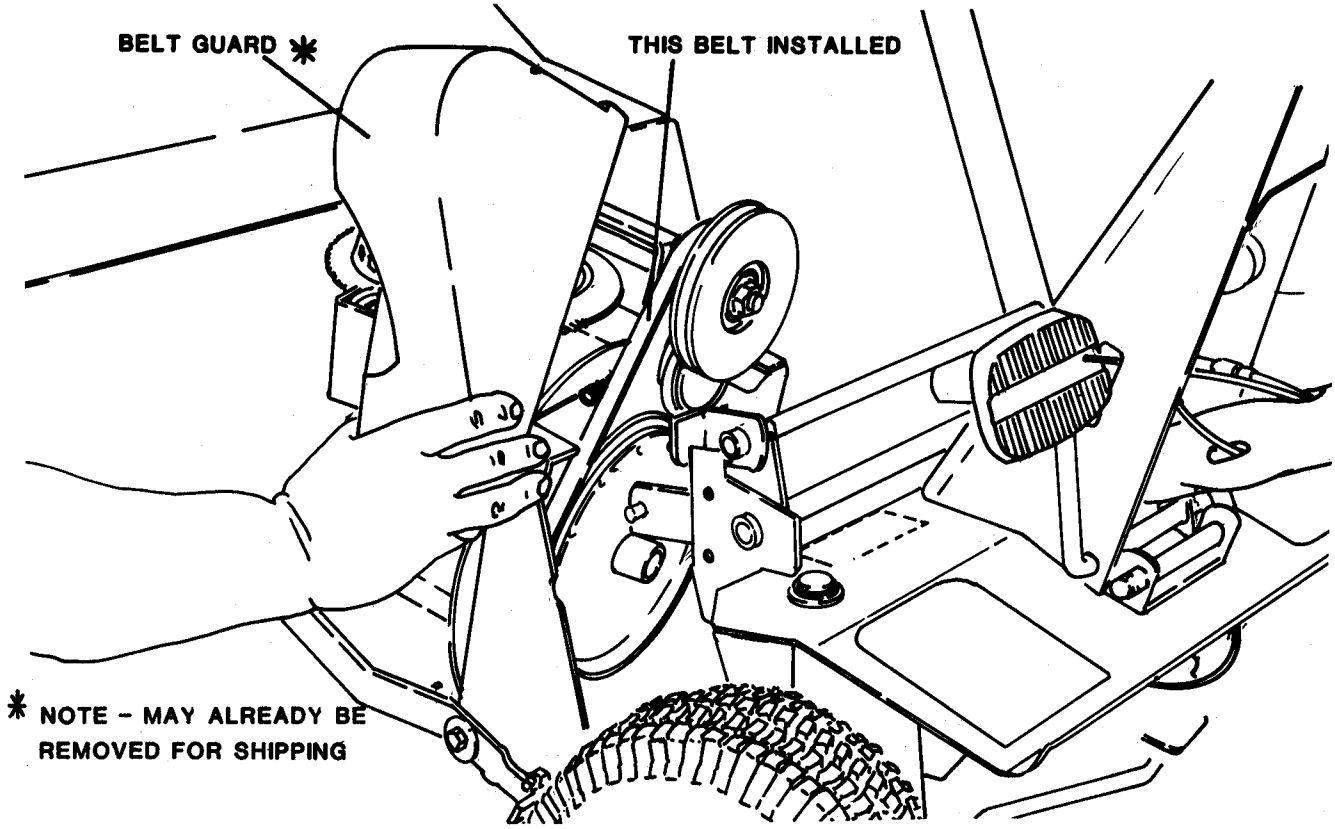

FIGURE 3. REMOVE BELT GUARD BEFORE MOVING BLOWER INTO POSITION

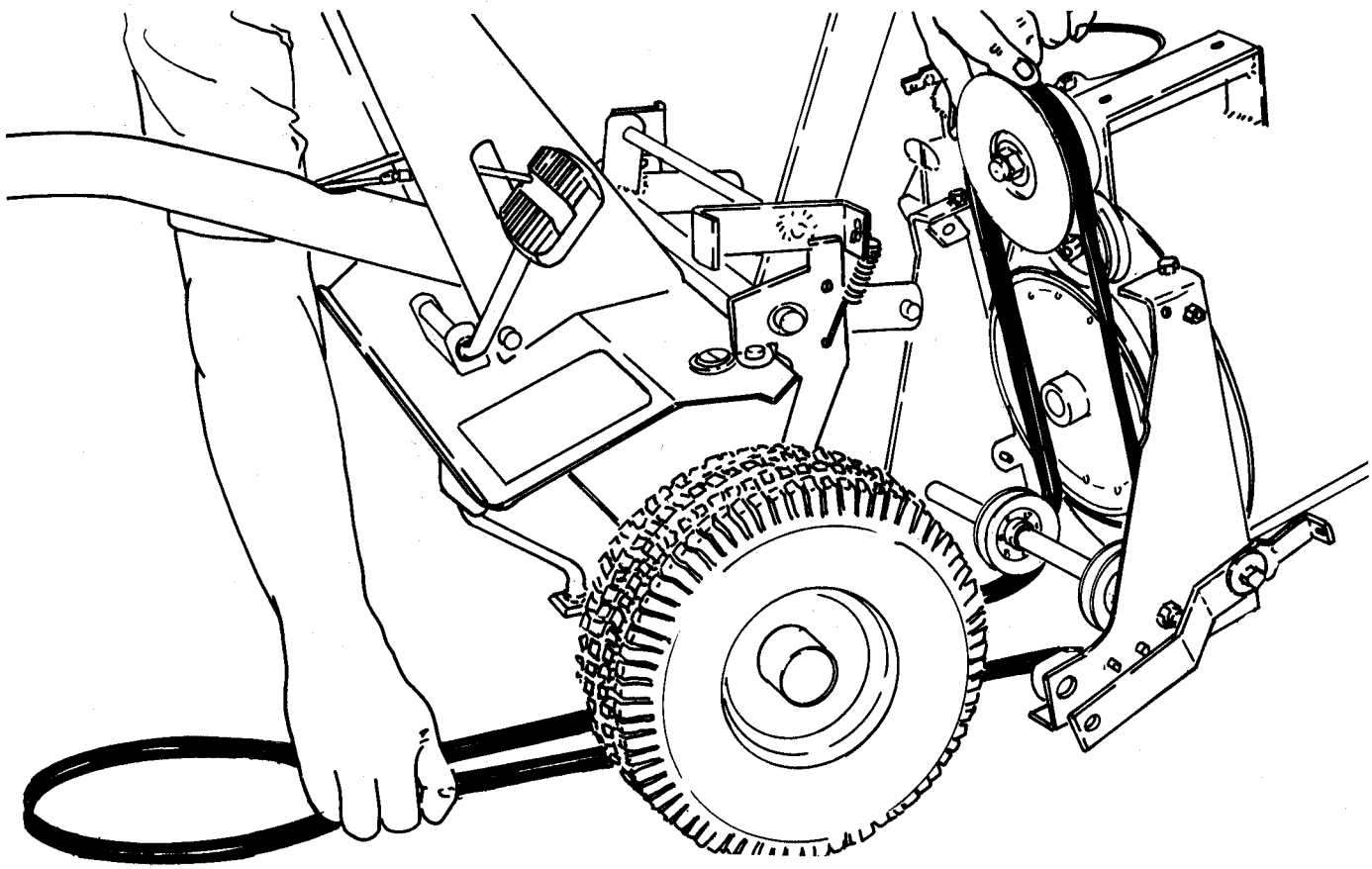

FIGURE 4. INSTALLING BLOWER DRIVE BELT OVER PULLEY

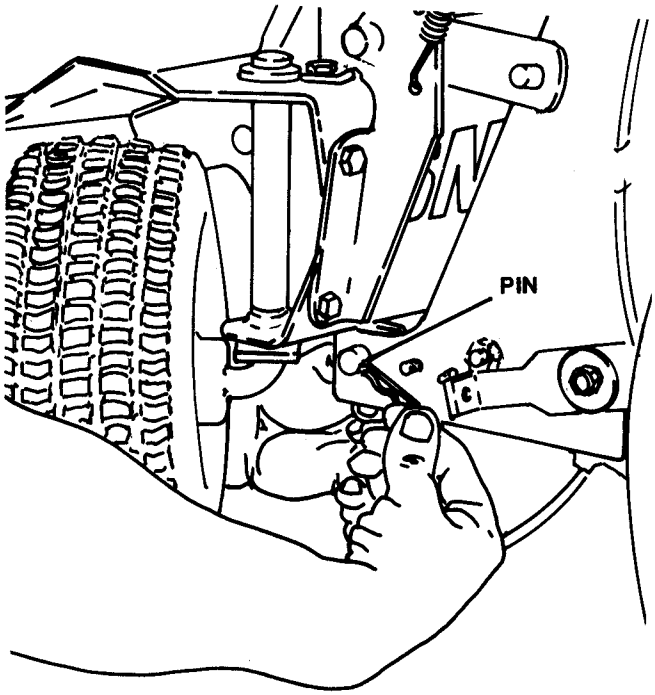

FIGURE 5. INSTALLING LOWER MOUNTING PINS

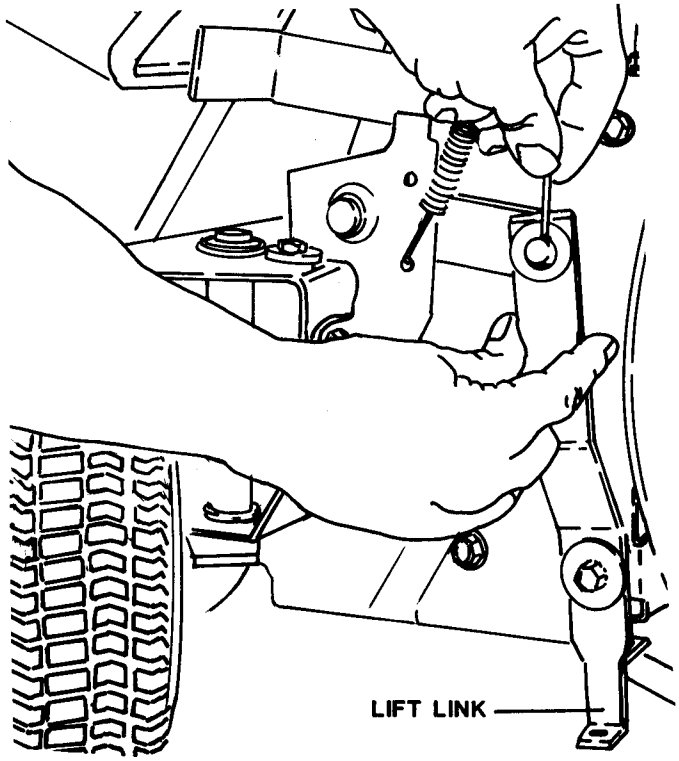

FIGURE 6. SECURING LIFT LINKS

STEP 4: Reposition the lift assembly on the front end and secure at the top holes with 5/16-18 x 5/8 capscrews and locknuts. Square the brackets and drill thru the remaining two holes at front of each bracket and secure at these points with 5/16-18 x 5/8 capscrews and locknuts.

STEP 5: Remove the black plastic belt cover from the blower unit (Figure 3), install blower drive belt over the pulleys as shown in Figure 4 then slide the blower into position at the front of the Rider.

STEP 6: Lift rear of blower to align holes in mounting braces with matching holes in front end, insert pins from inside and secure each with hair pins (Figure 5).

STEP 7: Rotate lift links on both sides of blower into position to engage mounting pins as shown in Figure 6, install flat washer and secure with cotter pin.

STEP 8: Assemble latch spring on right side and lift assist springs on both sides as shown in Figure 7.

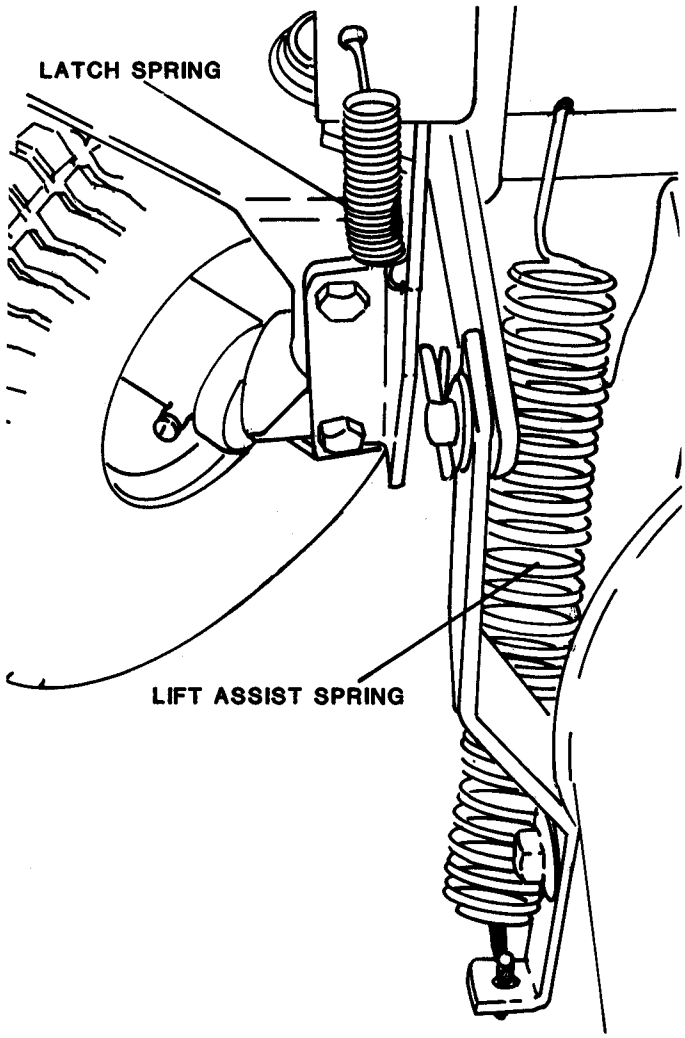

FIGURE 7. LATCH SPRING CONNECTIONS

(OVER)

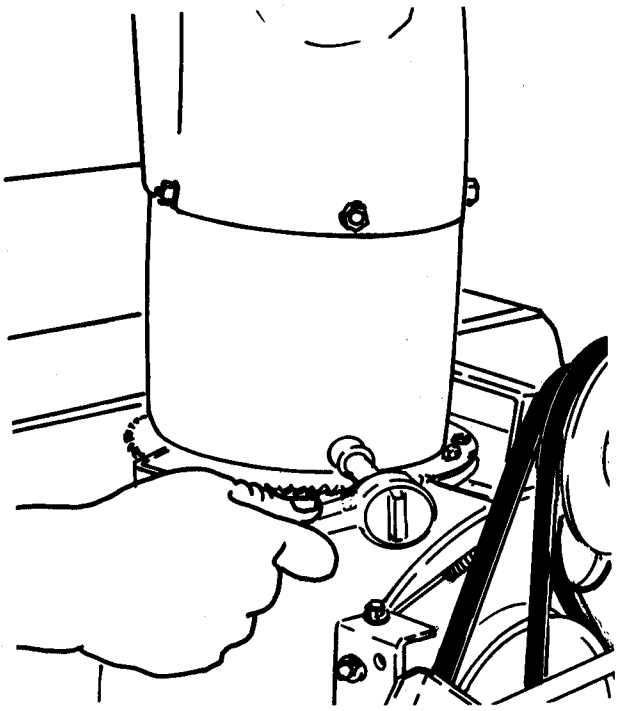

FIGURE 8. INSTALLING CHUTE-DEFLECTOR

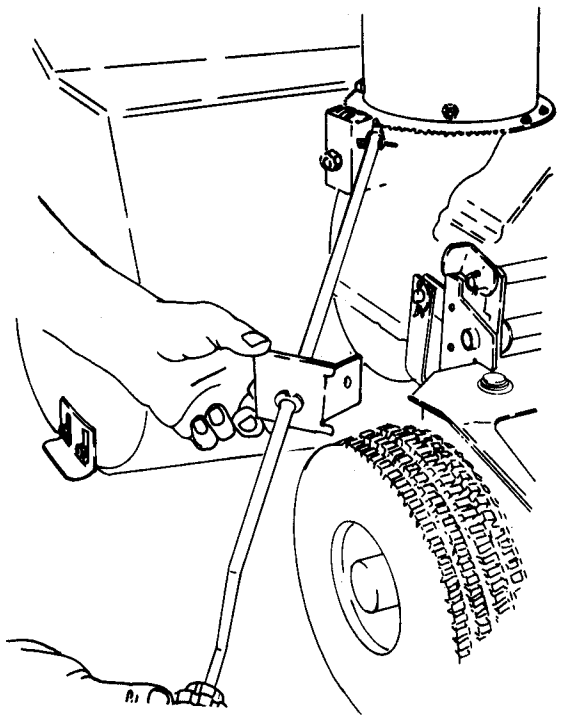

FIGURE 9. CHUTE CRANK SUPPORT DETAIL

STEP 9: The discharge chute/deflector can now be assembled to the blower. Secure at three points with carriage bolts and locknuts on outside (Figure 8).

STEP 10: Assemble the chute crank support on the crank rod as shown in Figure 9, attach crank rod to "U" joint of worm gear and secure with a cotter pin (Figure 10).

STEP 11: Slide support bracket over top of center column, mark center of bracket hole as shown in Figure 11, then drill thru using 1/8 starter drill and final 11/32" drill. NOTE: Move wiring on backside of engine ignition switch out of the way while drilling.

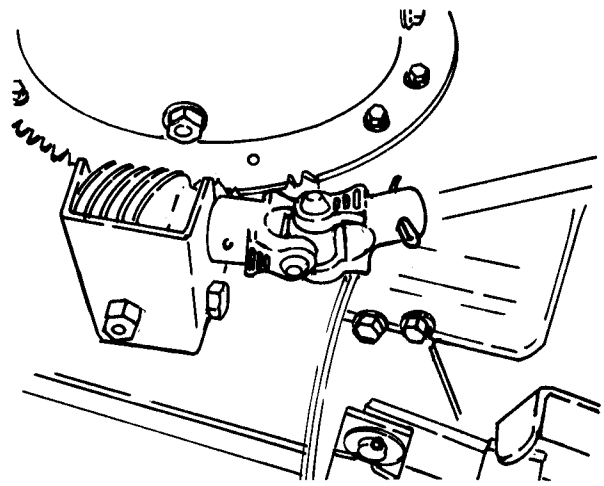

FIGURE 10. SECURING CRANK ROD

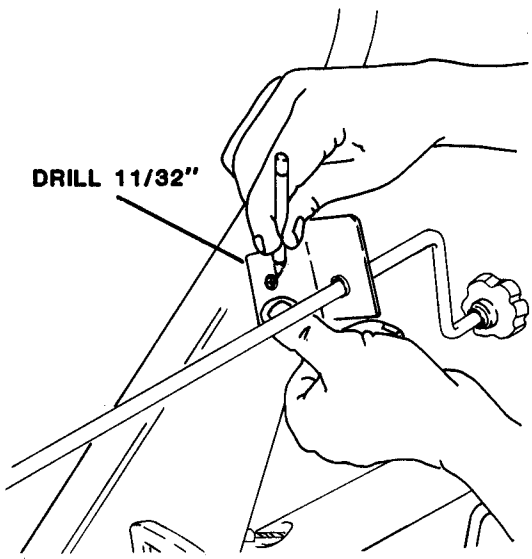

FIGURE 11. MARKING SUPPORT HOLE CENTER

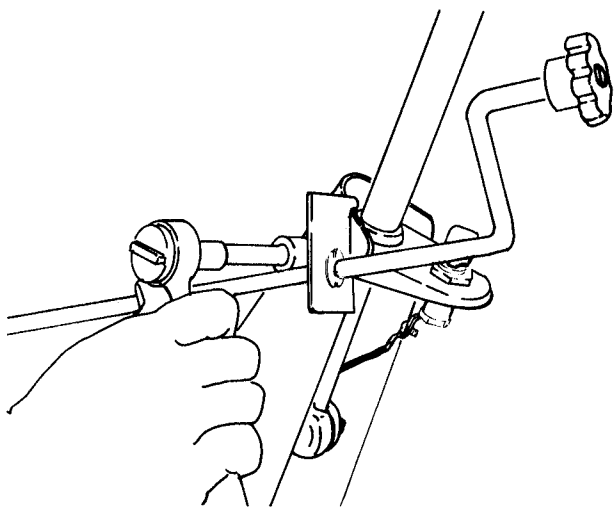

FIGURE 12. SECURING CHUTE CRANKS

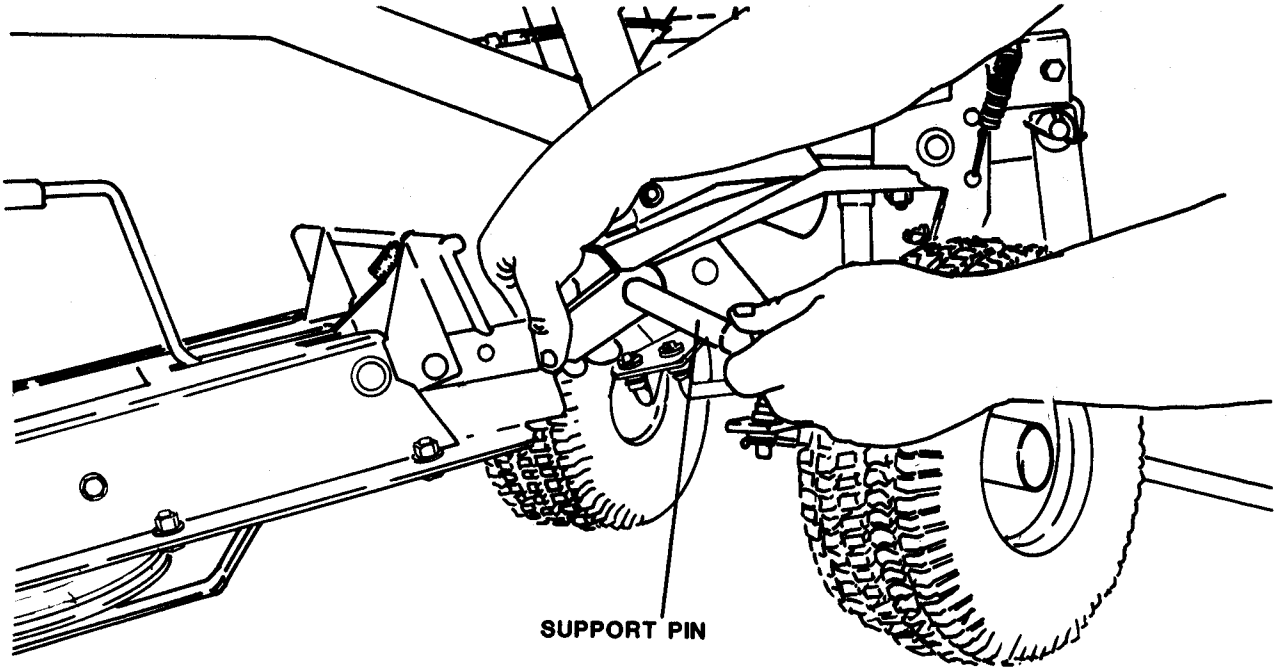

FIGURE 13. SECURING CARRIER TO FRONT END WITH SUPPORT PIN

STEP 12: Reposition chute crank-bracket on column and secure with 5/16-18 x 5/8 capscrew and locknut on outside (Figure 12).

STEP 13: Place carrier assembly under Rider, lift front end until holes align with those in mounting brackets, insert support pin and secure with a cotter pin (Figure 13).

STEP 14: Raise rear of carrier and hook chains over eye bolts. Adjust so that carrier is level from front to rear (Figure 14).

STEP 15: Remove the switch plate, disconnect deck interlock wiring and connect the new wiring harness from kit in its place (Figure 15).

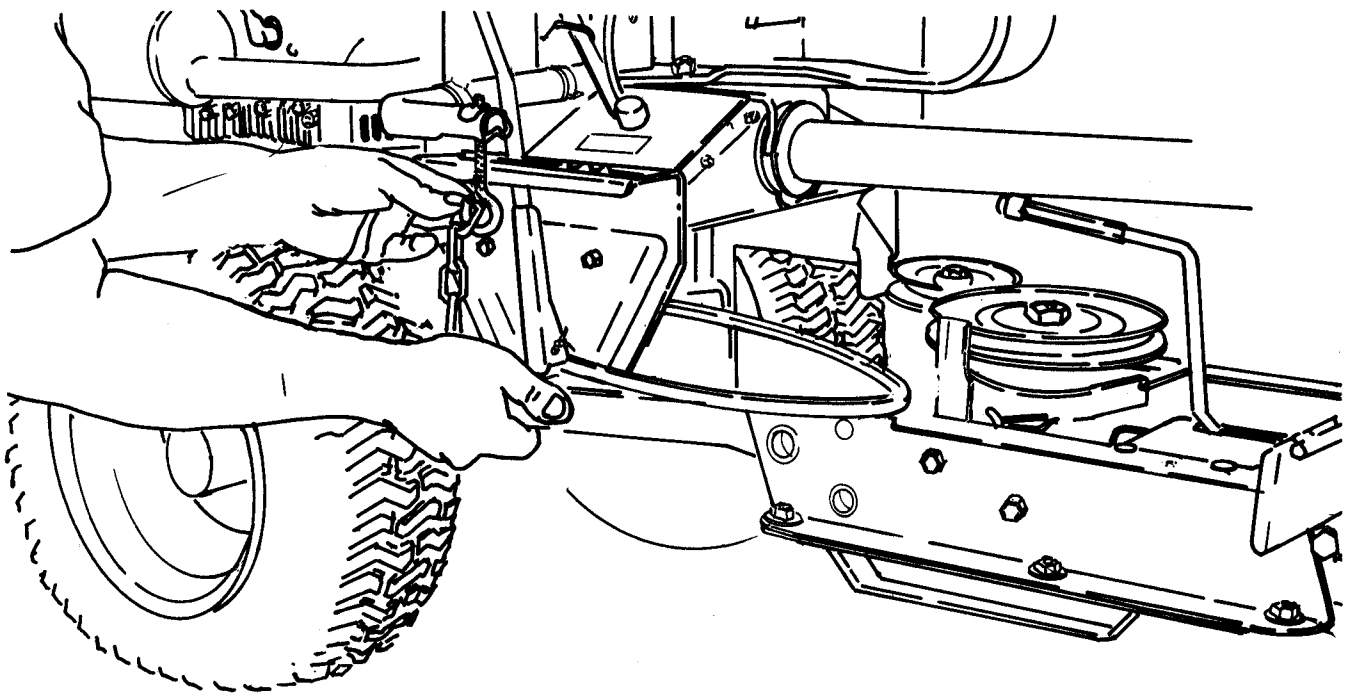

FIGURE 14. CONNECTING CARRIER CHAINS TO EYE BOLTS AT REAR

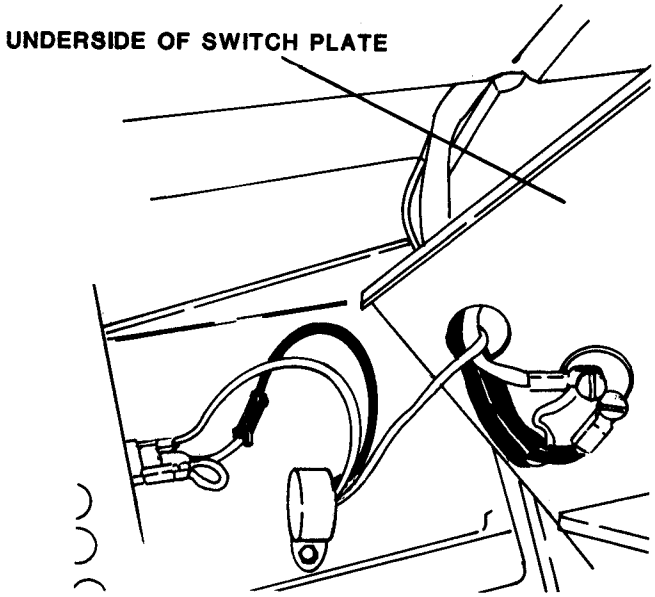

FIGURE 15. HARNESS TO SWITCH DETAIL

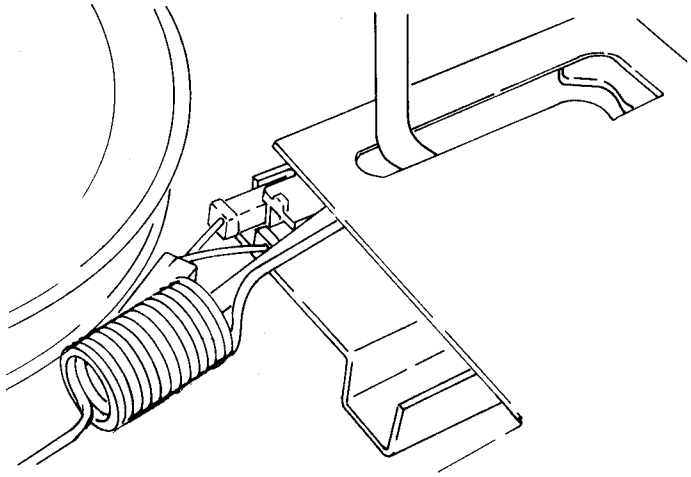

FIGURE 16. HARNESS TO INTERLOCK DETAIL

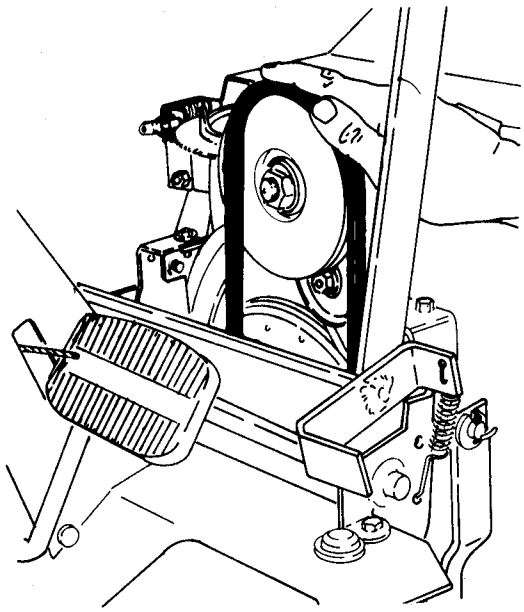

FIGURE 17. INSTALLING BLOWER BELT

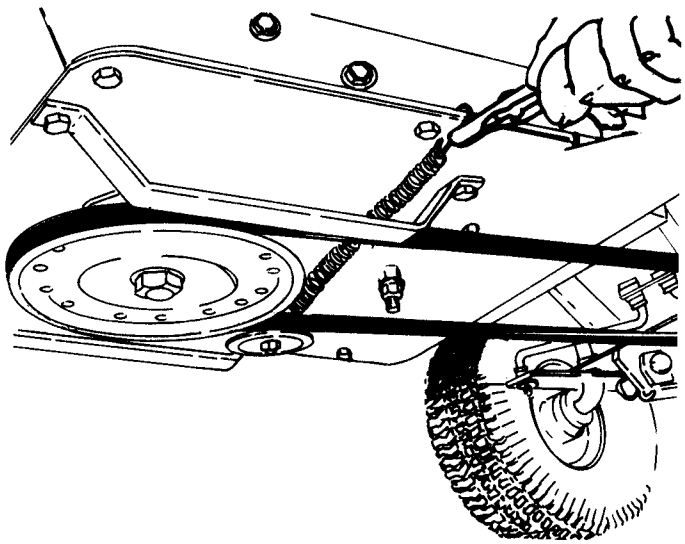

FIGURE 18. BLOWER BELT IDLER SPRING

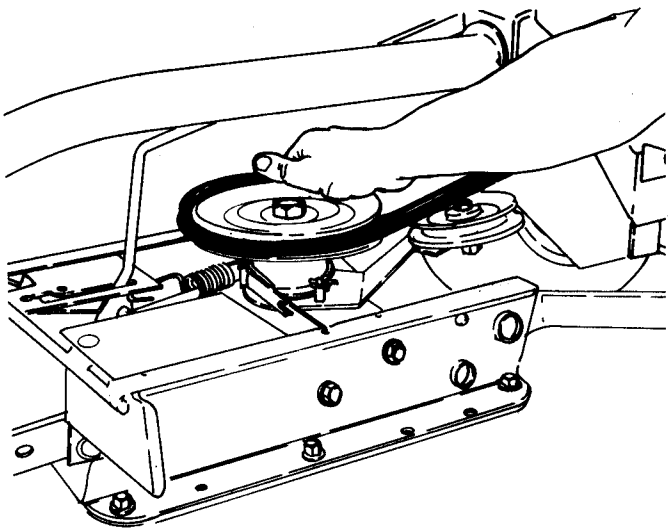

FIGURE 19. INSTALLING ENGINE BELT

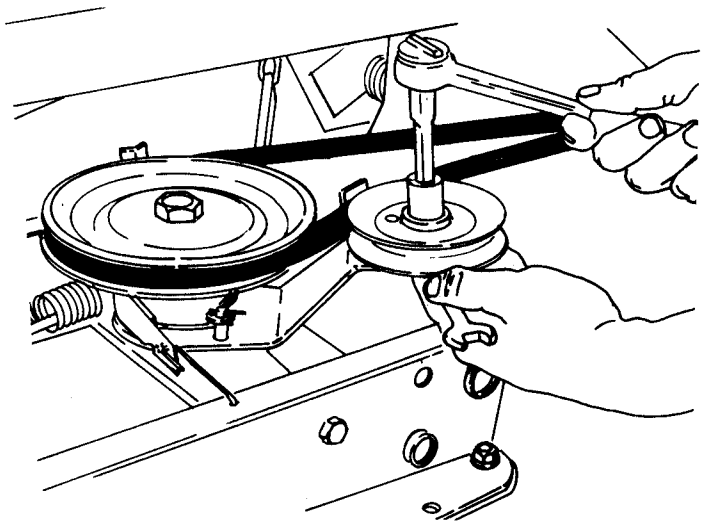

FIGURE 20. TIGHTENING BELT IDLER

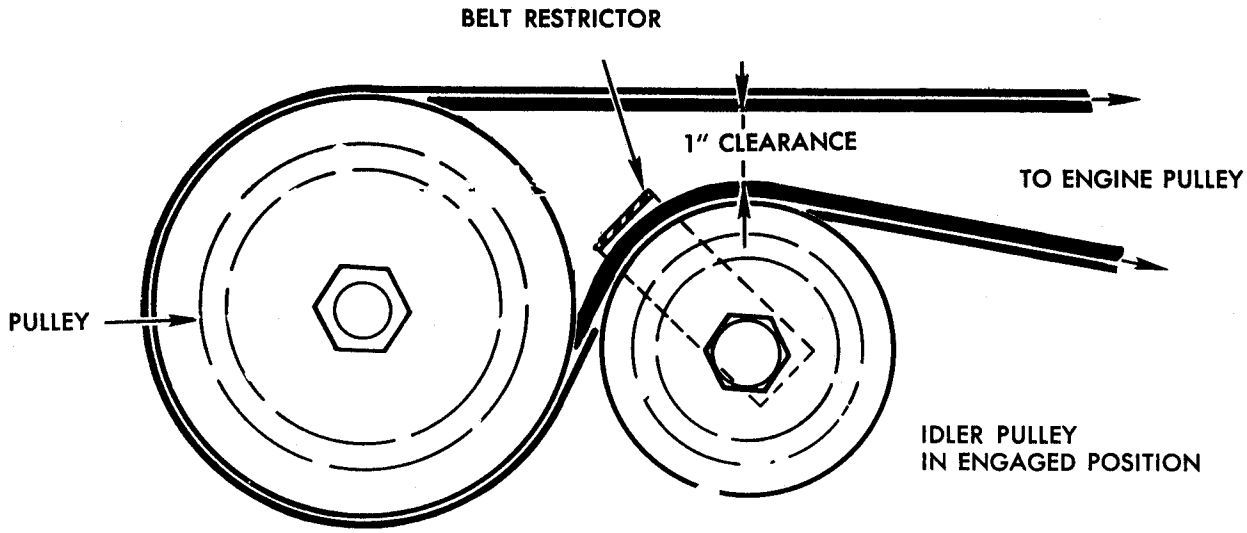

FIGURE 21. ENGINE DRIVE BELT TENSION DETAIL

STEP 16: Plug terminals of new wiring harness into interlock (Figure 16).

STEP 17: Install blower drive belt over pulley on underside of carrier and work other end over blower drive pulley (Figures 17 and 18).

STEP 18: Grasp end of blower belt idler spring with pliers, stretch spring across bottom and hook as shown in Figure 18.

STEP 19: Loosen drive belt idler assembly, work belt over top of spindle pulley (Figure 20).

STEP 20: Arrange belt inside retainer then retighten idler assembly. Adjust belt tension if needed by pulling out front end so that 1" clearance is obtained between spans (Figure 21).

STEP 21: Install spindle cover from kit (Figure 22) and plastic belt guard cover on blower unit to complete the installation (Figure 23).

NOTE: The throttle control provided in the list has a larger diameter cable than the cable on the Rider and should be installed in its place if water enters the original and causes freeze-up problems.

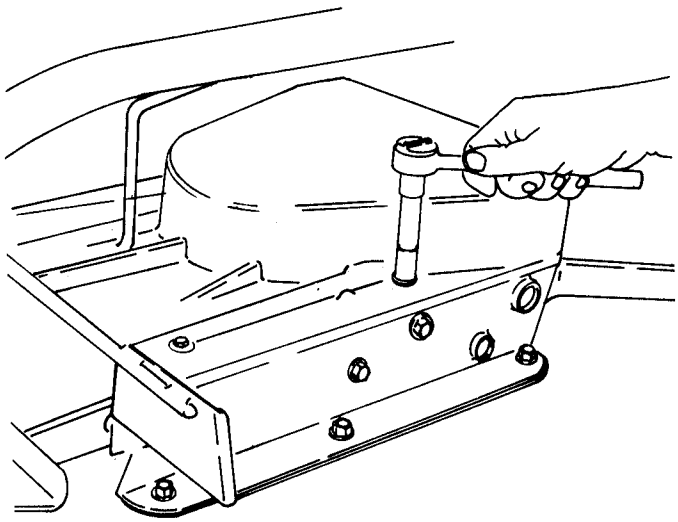

FIGURE 22. INSTALLING SPINDLE COVER

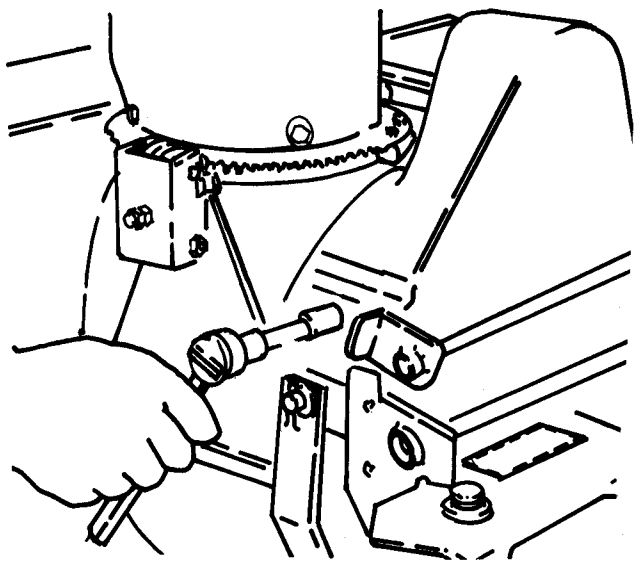

FIGURE 23. INSTALLING BLOWER BELT GUARD

OPERATIONAL TESTS AND ADJUSTMENTS
Before delivering the Snow Thrower equipped Rider to the customer, perform the following checks and adjustments.

ENGINE OIL: Drain the summer weight oil from the engine crankcase and add new oil of weight and grade specified for winter operation in the engine owner's manual.

TIRE PRESSURE ADJUSTMENT: Make sure that the pressure in both front tires is set at 20" psi. Reduce the pressure in the rear tires from the specified summertime setting of 25 psi to 15-20 psi for better traction in snow. Wheel weight and chain kits are available for optimum winter traction.

OPERATIONAL TEST: Start the engine and test operate all controls to make sure they are functioning properly. Latch the blower unit in the transport position and depress the clutch/brake pedal. If this pedal bottoms against the cross member of the lift handle assembly, readjust by adding another spacer to the underside of the clutch/brake pedal to permit full braking action without interference.

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82099 SNOWTHROWER MODIFICATION

When the belt stretches the spring loaded idler takes up the slack pulling the belt out of alignment with the mule drive pulley causing it to come off. SEE ORIGINAL BOTTOM VIEW SHOWN ON LEFT.

Stand Rider and Snowthrower on end. Use a 11029 idler pulley and fit onto belt as shown (1) and push belt outward until belt is aligned with front pulley. (2) Then mark the spindle mounting plate at the center of the pulley and drill a 5/16" hole.

Then in the side view insert a 5/16 bolt (length unknown) (3) through the frame, stack washers or make a spacer (4) to position the new pulley to (5) hold the belt straight, then add a 5/16 washer (6) and 5/16 lock nut (7). JR

ORIGINAL	IMPROVED	
BOTTOM VIEW	BOTTOM VIEW	SIDE VIEW